

(English translation text: line 10 on page 2 to line 25 on page 3)

Disclosure of the Invention

In order to solve the above task, according to the invention, a microconnector includes a socket in which plural cantilever terminal blocks having pressure receiving parts are integrally formed on a board made of single crystal silicon, and socket leads are disposed on the terminal blocks, and a plug in which plug leads corresponding to the socket leads are provided on a plug board. By this, since the silicon excellent in spring characteristics is used for the board of the socket, and the terminal block is made such that the shape of an elastic contact part of the lead is the cantilever shape, the spring characteristics of the silicon are efficiently used. Besides, since the pressure receiving part is provided on the terminal block and the socket lead is provided, the elastic contact between the socket lead and the plug lead becomes firm, and the electrical connection between both the leads can be made reliable. Further, since the single crystal silicon is adopted for the board of the socket, a well-known micromachining technique is efficiently used, and fine processing can be precisely and easily performed. As a result, the microconnector with a narrower pitch between contact terminals and low height can be realized.

Besides, the microconnector is made such that the

pressure receiving parts are provided in the vicinities of free ends of the cantilever terminal blocks, and the socket includes a housing which covers the free ends and forms a receiving gap part to receive the plug in cooperation with the board of the socket. By this, since the single crystal silicon excellent in spring characteristics is used for the board of the socket, and the cantilever terminal blocks are provided with the pressure receiving parts in the vicinities of the free ends, the spring characteristics of the single crystal silicon are efficiently used. Further, since the socket includes the housing which covers the free ends and forms the receiving gap part to receive the plug in cooperation with the board, the electrical connection between both the leads can be made reliable.

Besides, a microconnector includes a socket in which on a board made of single crystal silicon, plural cantilever terminal blocks having free ends with pressure receiving parts in their vicinities and fixed ends continuous with the board are integrally formed, socket leads extending from the fixed ends to the free ends are disposed on upper surfaces of the terminal blocks, a guide pin receiving part and a guide groove continuous with the guide pin receiving part and formed in parallel to the terminal blocks are formed, and a housing covering the free ends and forming a receiving gap part to receive a plug in cooperation with the board is mounted, and

the plug in which plug leads corresponding to the socket leads and a guide pin corresponding to the guide groove are provided on a plug board, and consequently, since the silicon excellent in spring characteristics is used for the board, and the terminal block is made such that the shape of an elastic contact part of the lead is the cantilever shape, the spring characteristics of the silicon are efficiently used. Besides, since the pressure receiving part is provided on the terminal block and the socket lead is provided, the elastic contact between the socket lead and the plug lead becomes firm, and the electrical connection between both the leads can be made reliable. Further, since the single crystal silicon is adopted for the board of the socket